



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/697,545

DATE: 07/08/2003

TIME: 07:55:09

Input Set : A:\213001US4.ST25.txt

Output Set : N:\CRF4\07082003\I697545.raw

3 <110> APPLICANT: Wang, Guangyi
 5 <120> TITLE OF INVENTION: SUGAR MODIFIED NUCLEOSIDES AND THEIR USE FOR SYNTHESIS OF
 6 OLIGONUCLEOTIDES
 8 <130> FILE REFERENCE: 213.001-US4
 10 <140> CURRENT APPLICATION NUMBER: 09/697545
 11 <141> CURRENT FILING DATE: 2000-10-25
 13 <150> PRIOR APPLICATION NUMBER: US 08/766,991
 14 <151> PRIOR FILING DATE: 1996-12-16
 16 <160> NUMBER OF SEQ ID NOS: 48
 18 <170> SOFTWARE: PatentIn version 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 18
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial

25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Synthetic Oligonucleotide
 29 <220> FEATURE:

W--> 30 <221> NAME/KEY: Modified nucleotide

31 <222> LOCATION: (15)..(15)
 32 <223> OTHER INFORMATION: 5'-C-aminomethylthymidine
 34 <220> FEATURE:
 35 <221> NAME/KEY: misc_feature
 36 <222> LOCATION: (15)..(15)
 37 <223> OTHER INFORMATION: n is a, c, g, or t
 39 <220> FEATURE:

W--> 40 <221> NAME/KEY: Modified nucleotide

41 <222> LOCATION: (17)..(17)
 42 <223> OTHER INFORMATION: 5'-C-aminomethylthymidine
 44 <220> FEATURE:
 45 <221> NAME/KEY: misc_feature
 46 <222> LOCATION: (17)..(17)
 48 <220> FEATURE:
 49 <221> NAME/KEY: misc_feature
 50 <222> LOCATION: (17)..(17)
 51 <223> OTHER INFORMATION: n is a, c, g, or t
 53 <400> SEQUENCE: 1

W--> 54 atctctccgc ttccntnc

18

57 <210> SEQ ID NO: 2
 58 <211> LENGTH: 18
 59 <212> TYPE: DNA
 60 <213> ORGANISM: Artificial
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: Synthetic Oligonucleotide

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66 ttcctgtctg atggcttc
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72 <213> ORGANISM: Artificial
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Synthetic Oligonucleotide
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (1)..(1)
81 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
83 <220> FEATURE:
84 <221> NAME/KEY: misc_feature
85 <222> LOCATION: (2)..(2)
86 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
88 <400> SEQUENCE: 3
W--> 89 nncctgtctg atggcttc
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 18
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Synthetic Oligonucleotide
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (9)..(9)
104 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
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112 <212> TYPE: DNA
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131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (17)..(17)
134 <223> OTHER INFORMATION: fgh dr
136 <220> FEATURE:

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137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: (17)..(17)
139 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
141 <400> SEQUENCE: 6
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146 <211> LENGTH: 18
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Synthetic Oligonucleotide
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION: (16)..(17)
157 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
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164 <211> LENGTH: 18
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial
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169 <223> OTHER INFORMATION: Synthetic Oligonucleotide
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (6)..(6)
175 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (12)..(12)
180 <223> OTHER INFORMATION: 5'-(S)-C-methoxymethylthymidine
182 <400> SEQUENCE: 8
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186 <210> SEQ ID NO: 9
187 <211> LENGTH: 18
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Synthetic Oligonucleotide
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (17)..(17)
198 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
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204 <210> SEQ ID NO: 10
205 <211> LENGTH: 18
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial

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Input Set : A:\213001US4.ST25.txt

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209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthetic Oligonucleotide
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
215 <222> LOCATION: (16)..(17)
216 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
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224 <212> TYPE: DNA
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227 <220> FEATURE:
228 <223> OTHER INFORMATION: Synthetic Oligonucleotide
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (15)..(15)
234 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (17)..(17)
239 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
241 <400> SEQUENCE: 11
W--> 242 atctctccgc ttccntnc 18
245 <210> SEQ ID NO: 12
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247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Synthetic Oligonucleotide
254 <220> FEATURE:
255 <221> NAME/KEY: misc_feature
256 <222> LOCATION: (2)..(2)
257 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <222> LOCATION: (6)..(6)
262 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (12)..(12)
267 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (17)..(17)
272 <223> OTHER INFORMATION: 5'-(S)-C-aminomethylthymidine
274 <400> SEQUENCE: 12
W--> 275 anctcncgc tnccttnc 18
278 <210> SEQ ID NO: 13

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279 <211> LENGTH: 18
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Synthetic Oligonucleotide
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288 <221> NAME/KEY: misc_feature
289 <222> LOCATION: (17)..(17)
290 <223> OTHER INFORMATION: 5'-(S)-C-cyanomethylthymidine
292 <400> SEQUENCE: 13
W--> 293 atctctccgc ttccttnc 18
296 <210> SEQ ID NO: 14
297 <211> LENGTH: 18
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Synthetic Oligonucleotide
305 <220> FEATURE:
306 <221> NAME/KEY: misc_feature
307 <222> LOCATION: (16)..(17)
308 <223> OTHER INFORMATION: 5'-(S)-C-cyanomethylthymidine
310 <400> SEQUENCE: 14
W--> 311 atctctccgc ttccttnc 18
314 <210> SEQ ID NO: 15
315 <211> LENGTH: 18
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Synthetic Oligonucleotide
323 <220> FEATURE:
324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: (15)..(15)
326 <223> OTHER INFORMATION: 5'-(S)-C-cyanomethylthymidine
328 <220> FEATURE:
329 <221> NAME/KEY: misc_feature
330 <222> LOCATION: (17)..(17)
331 <223> OTHER INFORMATION: 5'-(S)-C-cyanomethylthymidine
333 <400> SEQUENCE: 15
W--> 334 atctctccgc ttccttnc 18
337 <210> SEQ ID NO: 16
338 <211> LENGTH: 18
339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial
342 <220> FEATURE:
343 <223> OTHER INFORMATION: Synthetic Oligonucleotide
346 <220> FEATURE:
347 <221> NAME/KEY: misc_feature
348 <222> LOCATION: (17)..(17)
349 <223> OTHER INFORMATION: 5'-(S)-C-allylthymidine

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/697,545

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Input Set : A:\213001US4.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~15,17~~
Seq#:3; N Pos. ~~1,2~~
Seq#:4; N Pos. ~~9~~
Seq#:6; N Pos. ~~17~~
Seq#:7; N Pos. ~~16,17~~
Seq#:8; N Pos. ~~6,12~~
Seq#:9; N Pos. ~~17~~
Seq#:10; N Pos. ~~16,17~~
Seq#:11; N Pos. ~~15,17~~
Seq#:12; N Pos. ~~2,6,12,17~~
Seq#:13; N Pos. ~~17~~
Seq#:14; N Pos. ~~16,17~~
Seq#:15; N Pos. ~~15,17~~
Seq#:16; N Pos. ~~17~~
Seq#:17; N Pos. 16,17
Seq#:18; N Pos. 15,17
Seq#:19; N Pos. 6,11
Seq#:20; N Pos. 2
Seq#:21; N Pos. 17
Seq#:22; N Pos. 16,17
Seq#:23; N Pos. 15,17
Seq#:24; N Pos. 6,11
Seq#:25; N Pos. 2
Seq#:26; N Pos. 17
Seq#:27; N Pos. 16,17
Seq#:28; N Pos. 15,17
Seq#:29; N Pos. 2
Seq#:30; N Pos. 6,12
Seq#:31; N Pos. 17
Seq#:32; N Pos. 16,17
Seq#:33; N Pos. 15,17
Seq#:34; N Pos. 2,15,17
Seq#:35; N Pos. 6,12
Seq#:36; N Pos. 17
Seq#:37; N Pos. 16,17
Seq#:38; N Pos. 15,17
Seq#:39; N Pos. 11
Seq#:40; N Pos. 2
Seq#:41; N Pos. 17
Seq#:42; N Pos. 16,17
Seq#:43; N Pos. 11
Seq#:44; N Pos. 2,15,17
Seq#:45; N Pos. 6,12
Seq#:46; N Pos. 17

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Seq#:47; N Pos. 16,17
Seq#:48; N Pos. 15,17

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48